

**AERODYNAMICALLY SHAPED STATIC PRESSURE
SENSING PROBE**

5 ABSTRACT OF THE DISCLOSURE

 A static pressure sensing probe has an
aerodynamically shaped cross section, and extends
laterally from an aircraft surface sufficiently so
10 that an outer end of the probe is a short distance
outside the boundary layer on the aircraft surface on
which the probe is mounted. The probe has surface
corrugations or ridges along the probe, and the
ridges include an upstream ridge adjacent the leading
15 edge, and a downstream ridge spaced rearwardly from
the upstream ridge. The ridges cause pressure
disturbances along the probe surfaces. Static
pressure sensing ports are positioned on the surfaces
of the probe relative to the ridges in regions of
20 pressure disturbances caused by the ridges. The
probes can be mounted on opposite sides of the
aircraft and pneumatically or electrically connected
to average the pressures from selected sets of ports.

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